

III. The Claims Satisfy All Formal Requirements

The Office Action objects to claims 1-4 and 9-14 due to informalities. Claims 1-4 and 9-14 are amended to obviate this objection. The claims are amended to correct informalities only.

IV. The Claims Define Patentable Subject Matter

The Office Action rejects claims 1-17 under 35 U.S.C. §103(a) over U.S. Patent No. 6,398,366 to Hara et al. in view of U.S. Patent No. 5,760,875 to Daijogo et al. This rejection is respectfully traversed.

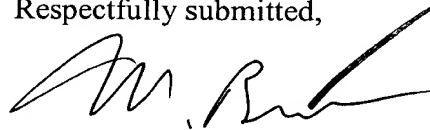
This application claims priority from JP 2000-299659, filed September 29, 2000. A certified translation is enclosed herewith. The filing date of Hara is October 13, 2000. Thus, Hara is not prior art for this application. Withdrawal of the rejection is respectfully requested.

V. Conclusion

In view of the foregoing, Applicants respectfully submit that this application is in condition for allowance. Favorable consideration and prompt allowance are earnestly solicited.

Should the Examiner believe that anything further is desirable in order to place this application in even better condition for allowance, the Examiner is requested to contact the Applicants' representative at the telephone number listed below.

Respectfully submitted,



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Attachments:

Appendix
Certified Copy of JP 2000-299659
Petition for Extension of Time
Request for Approval of Drawing Corrections

Date: February 25, 2003

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DEPOSIT ACCOUNT USE AUTHORIZATION Please grant any extension necessary for entry; Charge any fee due to our Deposit Account No. 15-0461
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APPENDIX

Changes to Specification:

Page 2, lines 5-17:

In order to achieve the above object, a light source according to an aspect of the present invention is used for a projector for modulating a light irradiated from a source lamp to form an optical image in accordance with image information and enlarging and projecting the optical image, the light source including: a source lamp; a reflector for aligning and emitting the light irradiated from the source lamp; and a case for accommodating the source lamp and the reflector, where a light-emitting surface of the reflector is covered by a light-transmissive plate and a pair of openings is formed on a contact surface of the light-transmissive plate and the reflector, the pair of openings being symmetrically disposed around an optical axis of the reflector, and where the case includes a cooling channel for introducing a cooling air to the source lamp through the pair of openings and a cooling channel shutter for shutting the cooling channel when the case is detached from the projector and for opening the cooling channel when the case is attached to the projector.

Page 11, lines 10-17:

The light-emitting surface of the reflector 412 is covered with a light-transmissive plate 301 such as a glass plate. A pair of openings 302 symmetrically disposed around the optical axis of the reflector 412 is formed on the contact surface of the light-transmissive plate 301 and the reflector 412. The pair of openings 302 are respectively composed of a recess 303 formed on the distal portion in the light-emitting direction of the reflector 412. A dust filter (~~not shown~~) 302a is respectively provided on the pair of openings 302. Accordingly, a cooling channel 340 is formed in the lamp body 410 to cool the source lamp 411.

Page 18, lines 4-7:

Though the pair of openings is constructed of a recess 303 formed by cutting a part of peripheral end of the reflector 412 in the light-emitting direction in the aforesaid embodiment, the pair of openings may be formed by, for instance, cutting a part of the light-transmissive plate.

Changes to Claims:

The following is a marked-up version of the amended claims:

1. (Amended) A light source used for a projector for modulating a light irradiated from a source lamp to form an optical image in accordance with image information and enlarging and projecting the optical image, comprising:

a source lamp;

a reflector for aligning and emitting the light irradiated from the source lamp;

and

a case for accommodating the source lamp and the reflector,

wherein a light-emitting surface of the reflector is covered by a light-transmissive plate and a pair of openings is formed on a contact surface of the light-transmissive plate and the reflector, the pair of openings being symmetrically disposed around an optical axis of the reflector, and

wherein the case includes a cooling channel for introducing a cooling air to the source lamp through the pair of openings and a cooling channel shutter for shutting the cooling channel when the case is detached from the projector and for opening the cooling channel ~~shutter~~ when the case is attached to the projector on both pair of the openings.

2. (Amended) The light source according to claim 1, wherein the pair of openings ~~is a~~ comprise recesses formed on the distal part of the reflector in the light-emitting direction.

3. (Amended) The light source according to claim 1, wherein the pair of openings ~~is~~are horizontally disposed when the case is detached from the projector.

4. (Amended) The light source according to claim 1, wherein the cooling channel shutter includes a lid member rotatably supported to the case for shutting ~~the~~an opening formed on the case and a biasing member for biasing the lid member in rotary direction.

9. (Amended) The projector according to claim 8, further comprising a duct having an end inserted ~~to~~into the cooling channel shutter while being attached to the light source for introducing the cooling air into the light source.

10. (Amended) The projector according to claim 9, wherein a fan for transferring the cooling air is provided on ~~the~~a base end of the duct.

11. (Amended) The projector according to claim 9, further comprising an exhaust duct for discharging the air having cooled the inside of the light source, ~~the~~a base end of the duct being connected to the exhaust duct.

12. (Amended) The light source according to claim 8, wherein the pair of openings ~~is a~~comprise recesses formed on the distal part of the reflector in the light-emitting direction.

13. (Amended) The light source according to claim 8, wherein the pair of openings ~~is~~are horizontally disposed when the case is detached from the projector.

14. (Amended) The light source according to claim 8, wherein the cooling channel shutter includes a lid member rotatably supported to the case for shutting ~~the~~an opening formed on the case and a biasing member for biasing the lid member in rotary direction.